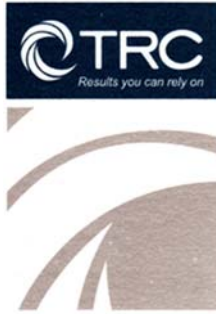


September 28, 2018



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September 28, 2018

Ms. Lori Simmons
Arkansas Department of Health
4815 West Markham Street
Little Rock, Arkansas 72205
Via email Lori.Simmons@arkansas.gov

Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Please find the following biweekly report for the Georgia-Pacific (GP) Crossett Mill hydrogen sulfide (H₂S) and meteorological monitoring program covering the calendar period of September 5, 2018 through September 18, 2018.

Summary of Results

Included in this report are three plots presenting H₂S concentrations across different rolling average periods (30-minute, 8-hour, and 24-hour), daily 1-point quality control (QC) checks with precision and bias estimates and time series plots for all recorded meteorological (met) parameters for the two week period.

Data Quality

The Quality Assurance Project Plan (QAPP) establishes measurement quality objectives (MQOs) for H₂S regarding precision and bias expressed as a coefficient of variation (CV) <10% and $\pm 10\%$, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1. Precision and bias calculations are presented on page six of this report.

Results for available automated daily 1-point QC checks were within the accuracy objective, $\pm 10\%$, indicating the H₂S monitor was operating in accordance with MQOs as stated in the QAPP.

During this reporting period two automated zero checks were performed. The results for these zero checks are presented on the following page.



Date	Zero Check Response (ppb)
9/5/2018	0.0
9/12/2018	-0.1

Data Capture

There was a single occurrence of H₂S data loss this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. A power interruption at the H₂S site on September 17th was responsible for approximately three hours of H₂S data loss. Power was restored around 5:30 PM on the 17th.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. All met parameters have 100% data capture for this report period.

Please feel free to contact me if you have any questions or need any additional data.

Sincerely,

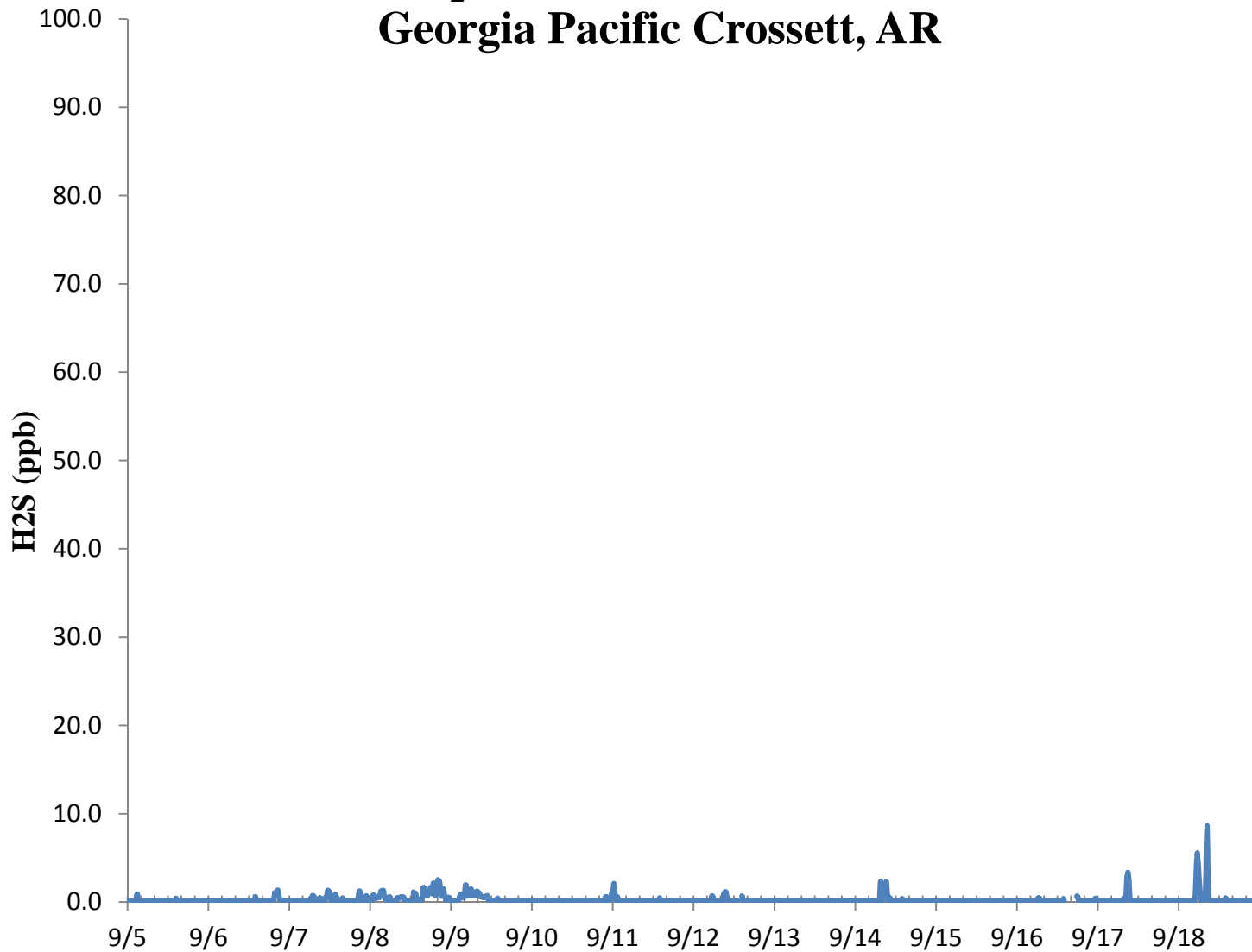


Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

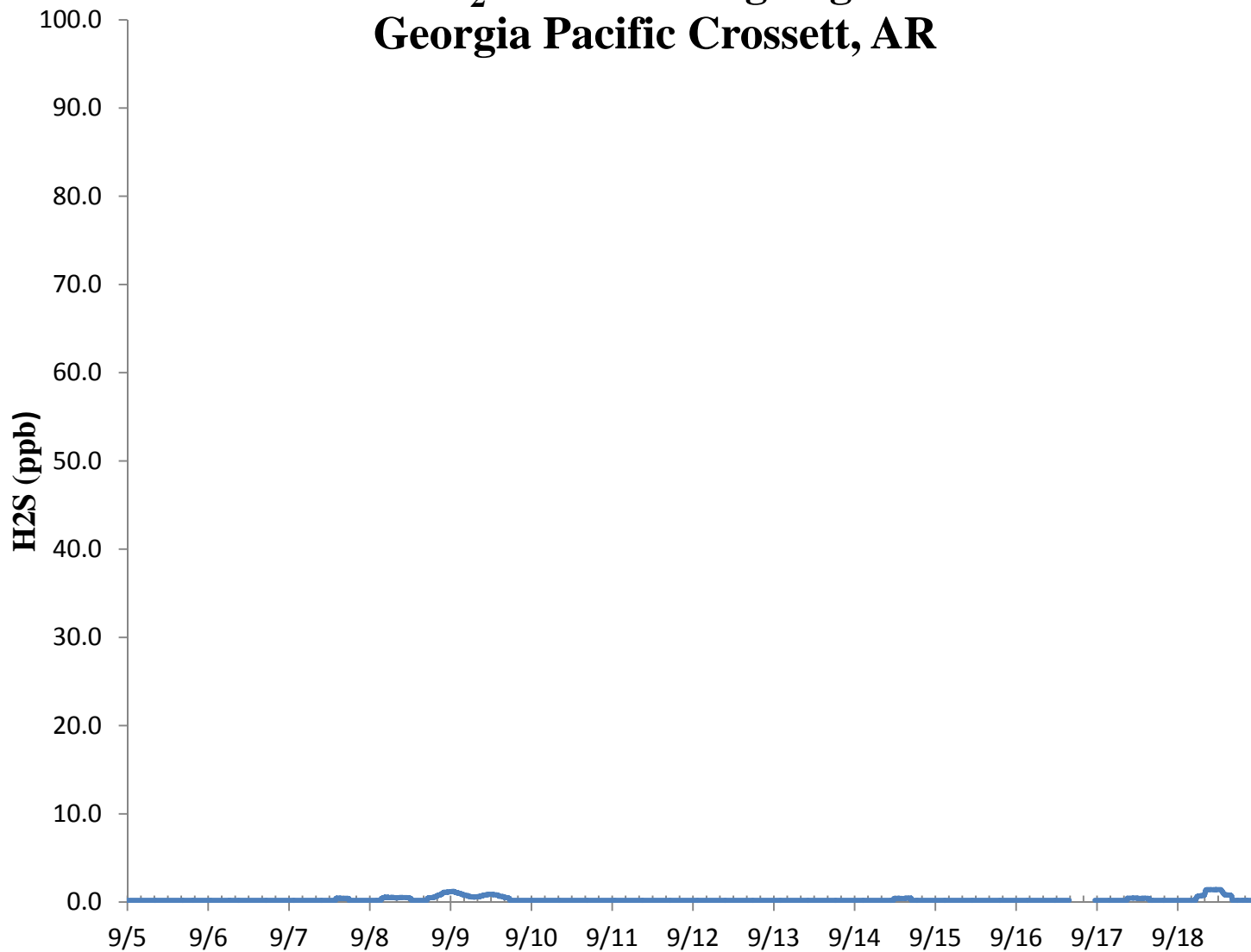
Air Measurements – Gainesville Office
6312 NW 18th Drive, Suite 100
Gainesville, Florida 32653
(352) 260-1162
Email: jbowser@trcsolutions.com

CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

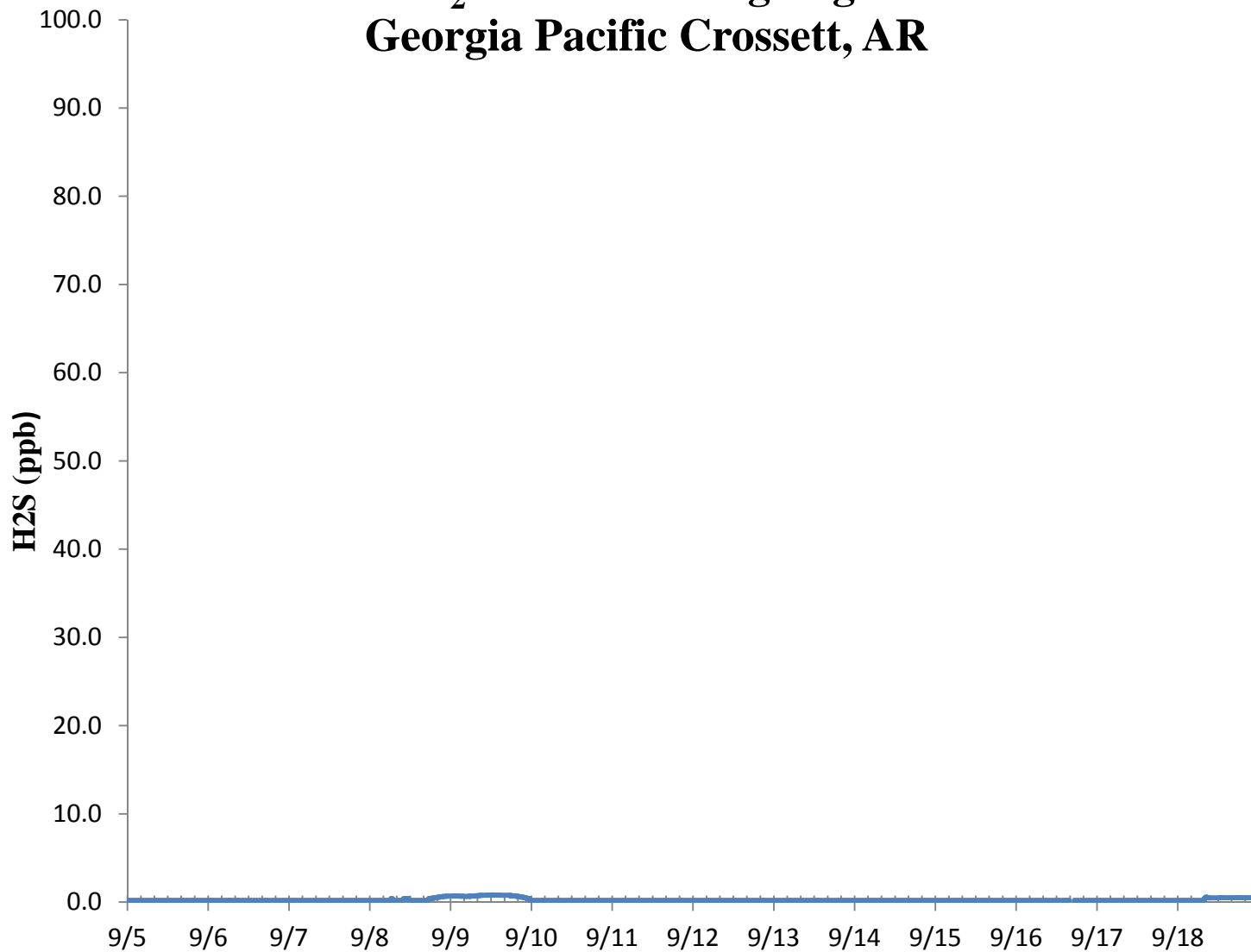
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S Assessment

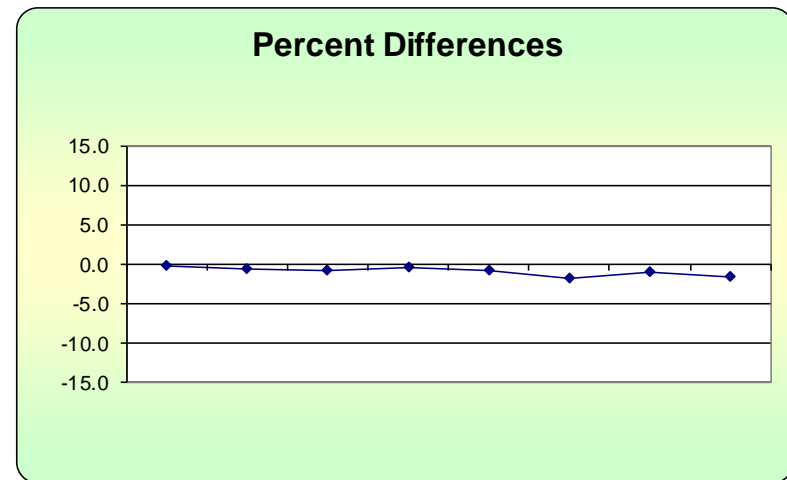
GP - Crossett, AR			Compound of Interest: H ₂ S			CV _{ub} (%)	Bias (%)	
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²	
9/5/2018 13:00	69.8	70.0	-0.3	-1.536	0.082	0.286	0.082	
9/6/2018 13:00	69.6	70.0	-0.6	75th Percentile	0.327	0.571	0.327	
9/7/2018 13:00	69.5	70.0	-0.7	-0.714	0.510	0.714	0.510	
9/8/2018 13:00	69.7	70.0	-0.4		0.184	0.429	0.184	
9/9/2018 13:00	69.5	70.0	-0.7		0.510	0.714	0.510	
9/10/2018 13:00	68.8	70.0	-1.7		2.939	1.714	2.939	
9/11/2018 13:00	69.3	70.0	-1.0		1.000	1.000	1.000	
9/12/2018 13:00	68.9	70.0	-1.6		2.469	1.571	2.469	
9/13/2018 13:00	68.8	70.0	-1.7		2.939	1.714	2.939	
9/14/2018 13:00	68.5	70.0	-2.1		4.592	2.143	4.592	
9/15/2018 13:00	69.3	70.0	-1.0		1.000	1.000	1.000	
9/16/2018 13:00	69.0	70.0	-1.4		2.041	1.429	2.041	
9/17/2018 13:00	69.1	70.0	-1.286		1.653	1.286	1.653	
9/18/2018 13:00	69.3	70.0	-1.000		1.000	1.000	1.000	

n	S_d	S_{d2}	Σ d 	"AB" (Eqn 4)
14	0.550	1.324	15.571	1.112
n-1	Σd	Σd²	Σ d ²	"AS" (Eqn 5)
13	-15.571	21.245	21.245	0.550

Bias (%) (Eqn 3)	Both Signs Positive
1.37	FALSE
Signed Bias (%)	Both Signs Negative
-1.37	TRUE

CV (%) (Eqn 2)	0.75
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Upper Probability Limit	Lower Probability Limit
-0.04	-2.19



Meteorological Summary

